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<b>To:</b>	<b>Name</b> Commissioner for Patents	<b>Company</b> U.S.P.T.O.	<b>Fax Number</b> (703) 872-9306
<b>Examiner:</b>	Karin Reichle	<b>Group Art Unit:</b>	3761
<b>Subject:</b>	1. Petition for Three-Month Extension of Time 2. Amendment In Response To Office Action Mailed on October 8, 2003		
	<b>Applicant:</b> Lee K. Jameson et al.	<b>Docket No.</b> 17090B	
	<b>Serial No.:</b> 09/990,686		
	<b>Confirmation No.:</b> 2950		
	<b>Filed:</b> November 16, 2001		
	<b>For:</b> Material Having One Or More Chemistries Which Produce Topography, Unique Fluid Handling Properties And/Or Bonding Properties Thereon And Therein		

<b>From:</b>	Christos S. Kyriakou (42,776)	<b>Total Pages:</b>	14, including cover sheet
<b>Dept:</b>	Patent / Legal Department	<b>Date:</b>	April 8, 2004
<b>Loc:</b>	Roswell, Georgia		

Please forward to the appropriate party(ies) for their information and action.

Thank you.

Enclosures:

1. Petition for Three-Month Extension of Time
2. Amendment In Response To Office Action Mailed on October 8, 2003

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Response and Amendment  
In U.S. 09/990686

**In the United States Patent and Trademark Office**

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Applicant:	Lee Kirby Jameson et al.	Docket No.:	170908
Serial No.:	09/990,686	TC/A.U.:	3761
Confirmation No:	1818	Examiner:	Karin M. Reichle
Filed:	November 16, 2001	Conf. No.:	2950

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For: **Material Having One Or More Chemistries Which Produce Topography,  
Unique Fluid Handling Properties And/Or Bonding Properties Thereon  
And/Or Therein**

**Response and Amendment**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In response to the Office Action of October 8, 2003, please amend the above-identified application as follows:

**Amendments to the Specification** begin on page 2 as follows.

Amendments to the Claims are reflected in the **Listing Of Claims** which begins on page 5 of this paper.

**Remarks/Arguments** begin of page 9 of this paper.

Response and Amendment  
In U.S. 09/990686

On page 3, please replace the third, forth and fifth full paragraphs with following amended paragraphs:

Figure 1 is ~~an enlarged illustration of a photograph illustrating~~ an exemplary configuration of a representative material of the present invention, wherein the material has a chemistry or application applied to the top surface of the material.

Figure 2 is ~~an enlarged photograph illustrating~~ a cross-sectional view of a material representative of the present invention.

Figure 3 is ~~an enlarged photograph illustrating a~~ an enlarged cross-sectional view of a material representative of the present invention.

On page 9, please replace the first full paragraph with following amended paragraph:

The material of the present invention may be produced by any number of suitable methods and apparatus, such as those disclosed in commonly assigned U.S. Patent Application Serial Number 09/991,185, filed on November 16, 2001 and entitled "APPARATUS AND METHOD TO PRODUCE TOPOGRAPHY, UNIQUE FLUID HANDLING PROPERTIES AND BONDING PROPERTIES ON AND WITHIN SUBSTRATES", the disclosure of which is incorporated herein by reference in its entirety.

On page 10, please replace the first full paragraph beginning at the top of the page with following amended paragraph:

Turning to Figure 1, ~~there is illustrated a photograph illustrating~~ a representative material of the present invention is provided. The exemplary material 10 is shown in Figure 1 with one line of application or chemistry 12 applied to the top surface of the substrate 14. As shown in Figure 1, but more clearly illustrated in the enlarged photographs provided in Figures 2 and 3, the one or more chemistries or applications 12, in this case wax, which are applied to the substrate 14, can be built up into distinct topographic features 16 by discrete placement, so as to produce a material which is much thicker than the base material. The topographic features may be used independently or may be used together as shown in Figure 3. In Figure 3, two neighboring lines of wax 12 have been applied to the substrate 14 such that they promote the channeling of fluid and force directional wicking along the substrate 14. One skilled in the art will appreciate that multiple variations and combinations of the applications and chemistries are possible and that each is intended to be covered by the disclosure of the application. For example, in some embodiments, it may be desirable

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for the material to have but one line of application to act as a simple barrier to one or more fluids and which may provide for directional wicking. Alternatively, it may be desirable for the applications to be applied as shown in the photograph of Figure 3 to control fluid movement to a specific area or component of a material or product. This can be achieved in a number of ways including, for example, varying the height, number and/or penetration and thus the topography of the chemistries applied to the substrate. In addition to the varying the number, height, and penetration of the chemistries, the chemistries are desirably selected for their physical attributes (e.g. affinities or repulsions to certain fluids) so as to produce the most desirable and efficacious end product.